

**CLAIMS**

- 5 1. - Integrated multispot satellite communication system (S) in a multimedia broadcasting network with return channel **characterised in that** it comprises common means of burst synchronisation (4) such that the transmission rate in a downlink direction (P2; U2; C2) from the satellite is a whole multiple of a clock reference of said network.
- 10 2. - System according to claim 1, **characterised in that** it includes a satellite (S) suitable for generating said network clock reference.
3. - Multiplexer for including in the satellite of claim 2.
4. - Multiplexer according to claim 3, **characterised in that** it is suitable for fitting in a synchronous manner different uplink channels into a downlink signal, in such a manner that a period of the downlink frame (Tdf) is equal to a period of the uplink frame (Tuf).
- 15 5. - Method of burst synchronisation in an integrated multispot satellite communication system in a multimedia broadcasting network with return channel **characterised in that** said synchronisation is common for a multimedia services provider and a user, in such a manner that the transmission rate in a downlink direction (P2; U2; C2) is a whole multiple of a
- 20 network clock reference.
6. - Method according to claim 5, **characterised in that** it comprises the generation of said network clock reference in a satellite (S) of said system.